

LG-20 Scorpion™ G

USER MANUAL



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BEFORE YOU BEGIN

What is included

- 1 x Scorpion™ G
- 1 x Linking cable
- Warranty Card
- User Manual

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC Power

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement.

Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Warning!

Verify that the power select switch on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.

Figure 1 - AC Voltage Switch



Not all fixtures have a voltage select switch. Please be sure to connect to the proper voltage.

Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance?

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature is Ta: 40°. Do not operate fixture at temperatures higher than this.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to lamp while it is on.

Caution!

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET.

INTRODUCTION

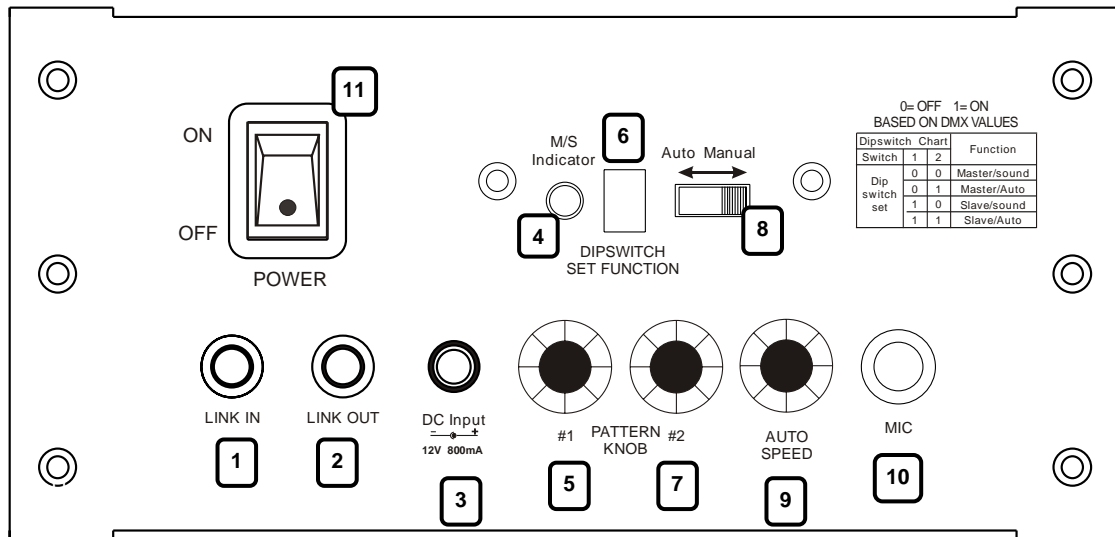
Thank you for purchasing this laser product. You can be assured that you have made an investment into the highest quality laser products available today. This product has been designed by the development team at CHAUVET.

You can be confident that our quality and after sales service is equal to our status of being the global leader in entertainment lighting and laser products.

Features

- 4.95mW green laser
- FDA-approved
- Operating modes; Automatic, Sound Active, Master/Slave
 - 40 patterns in Sound Active Mode
 - 50 plus patterns in Manual and Auto Modes
- Linkable laser
- Pattern and Speed knob for Automatic Mode
- Includes AC Adapter & linking cable

Product Overview



1. Link In: 3.5mm jack
2. Link Out: 3.5mm jack
3. DC power input
4. Mode LED Indicator
5. Pattern Rotary Knob # 1
6. Dipswitch 1 & 2
7. Pattern Rotary Knob # 2
8. Switch: (Manual/Automatic)
9. Speed Knob for Automatic Mode
10. Microphone
11. Power Switch

Linking cable provided



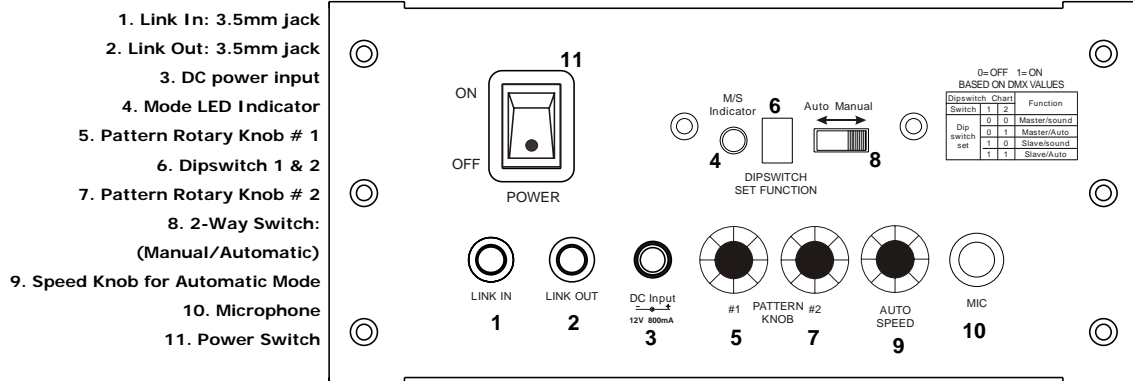
AC Power Connection:

The unit is supplied with a power pack appropriate to its voltage and destination. It is imperative that the correct power pack suitable for this unit be used at all times. If any other type of supply is provide to this unit then it is likely to render the unit non-operational.

General Instructions

This lighting effect has been designed to function on a 9V DC power and has been supplied with a suitable AC power pack for use with your local voltage. Check the label on the unit and the power plug for the correct voltage. When connected to the mains power supply via the power pack and switched on the unit should illuminate and shoot a <4.95mW single green laser. **Warning: Do not aim towards eye.**

The Scorpion™ G is ready to be plugged in out of the box. No assembly is required. The Scorpion™ G is a sound-active laser that can function in Stand-alone as well as Master/Slave. The unit is equipped with 40 built in patterns that cycle in sound-active mode and over 50 patterns in Manual or Automatic mode.



Mode Setup

Manual Mode: (8) Turn 2-way switch to the right

Automatic Mode: (8) Turn 2-way switch to the left

Master/Slave: works only when in Automatic Mode.

DIPSWITCH 1	MODE	DIPSWITCH 2	MODE
ON	Slave	ON	Automatic
		OFF	Sound Activated
OFF	Master	ON	Automatic
		OFF	Sound Activated

Stand-Alone Mode

The stand-alone mode can run either Sound Activated or Automatically. In Sound Active mode patterns will change to the beat of the music. In Automatic mode the patterns will change at a steady and pre-determined interval.

- 1) Turn 2-Way Switch to the left for Stand-Alone mode.

Sound Active

- 1) Set 2-Way Switch to the left.
- 2) Set Dipswitch 2 to the OFF position

Automatic

- 1) Set 2-Way Switch to the left.
- 2) Set Dipswitch 2 to the ON position.

Master/Slave Mode

The Master/Slave mode will allow you to link up to as many units you want in a daisy chain fashion. In this mode, the first unit in the daisy chain when set to Master will command all other units following set to Slave.

- 1) Set Dipswitch 1 to the OFF position, and then proceed to connect the linking cable into the output connection on the back of the unit. The green LED should not be lit.

You can set the master to operate either in a Sound-Active or Automatic mode by setting Dipswitch 2.

- 2) Connect the other end of the cable to the input connector of the back of the slave unit. Set Dipswitch 1 to the ON position on the slave unit. The green LED will turn on.
- 3) Continue the link by coming out of the output and into the input of the following unit and remember to set all slave fixtures Dipswitch 1 to the ON position.

Manual Mode

In manual mode Pattern Rotary Knobs 1 and 2 are available for image creation and manipulation.

- 1) Set 2-Way Switch to the right to set unit to Manual mode.
- 2) Use both Pattern Rotary Knobs 1 and 2 to create patterns.

COMPLIANCE STATEMENT

Your **LG-20** has been designed to comply with FDA and IEC Standards for its classification. A special optic design regulates the output of the projector so that when properly used the output remains at levels government agencies have determined to be appropriate for the products function.

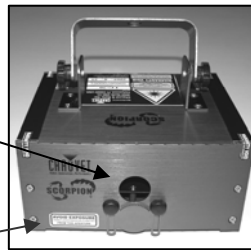
Laser Safety and Compliance Information

This product is manufactured to comply with the IEC 60825-1 and in accordance with U.S. Food and Drug Administrations (FDA) Standards listed under FDA Document 21 CFR 1040 and subsequent laser notices.

Product Classification and Manufacturing Label Identification

Laser Classification	Class IIIa
Laser Medium	532nm/4.95mW green laser diode module
Cooling	Air
Output	4.95mW
Beam Divergence	Optically adjusted for compliance

There is only one laser aperture on this product.



DANGER – Visible and invisible Laser radiation when open. Avoid Direct Eye or Skin Exposure


AVOID EXPOSURE
Visible and/or Invisible
LASER RADIATION EMITTED
FROM THIS APERTURE

CAUTION: AVOID EXPOSURE TO BEAM: Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser radiation.

Non-Interlocked Housing Warning Labels. This unit contains an embedded laser device that exceeds the output of the intended class internally. Exposure to unsafe levels of laser radiation when opened.

WARRANTY VOID
If seal is broken or has been tampered with

Additionally there are no user serviceable parts inside. Tampering or removing warranty seals will void your products limited warranty.

DANGER	
VISIBLE OR INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION	
 LASER OUTPUT: <5mW WAVELENGTH: 532nm DPSS YVO4 CLASS IIIa LASER PRODUCT	
Complies with 21CFR 1040.10 and 1540.11 and Laser Notice 50	
Chauvet Lighting-Product Information MODEL <input type="text"/> Date of Manufacturing <input type="text"/> Serial Number <input type="text"/>	

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APPENDIX

Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.






























Returns Procedure































Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

Patterns Chart

VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS
1		18		35	
2		19		36	
3		20		37	
4		21		38	
5		22		39	
6		23		40	
7		24		41	
8		25		42	
9		26		43	
10		27		44	
11		28		45	
12		29		46	
13		30		47	
14		31		48	
15		32		49	
16		33		50	
17		34		51	

VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS
1		18		35	
2		19		36	
3		20		37	
4		21		38	
5		22		39	
6		23		40	
7		24		41	
8		25		42	
9		26		43	
10		27		44	
11		28		45	
12		29		46	
13		30		47	
14		31		48	
15		32		49	
16		33		50	
17		34		51	

Technical Specifications

WEIGHT & DIMENSIONS	
Length.....	7.1 in (180 mm)
Width	6.7 in (170 mm)
Height	5.1 in (130 mm)
Weight	4.0 lbs (1.81 kg)
POWER	
Power adapter	DC 12V 800mA
LASER	
Diode	1 x 4.8 ~ 5 mW green laser
Wavelength.....	532 nm
Part No	4.9mW Green
THERMAL	
Maximum ambient temperature.....	40° (104° F)
ORDERING INFORMATION	
Scorpion G.....	LG-20